* NOTICES *

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CLAIMS

[Claim(s)]
1. It is Approach of Manufacturing Absorptivity Garments (17) in which Re-Wearing for Absorption of Human Being's Exudate is Possible from Web (1). The absorptivity goods which a large number to which it adhered in parallel so that said web might form a web [****] substantially [the goods which have a longitudinal direction edge (25 26) facing each other, and to which it adhered] opened are included. It is arranged between the goods with which the separation line (6) meant adjoins. approach: (a) in which said approach includes the following processes — the process (said first strip (8) is arranged at said one line (6) side) which crosses and applies the separation line (6) meant on one edge (25) of the longitudinal direction of a web in the first strip (8) of a flexible ingredient And the partition of the ingredient (18) which can be attached is included so that said web may be faced and it can remove.;
(b) Process which crosses and applies the separation line (6) meant on the edge (26) of another side of the longitudinal direction of a web in the second strip (13) of a flexible ingredient;
(c) Process which folds up a web between longitudinal direction edges (25 26) in order to obtain the web of the goods which folded up (F) to (R) the posterior part side the anterior part side;
(d) Don't break ****** SUTORIBBU (8 13) which divides said contiguity goods into a longitudinal direction by the separation line (6) by which the above is meant. process; which gives a free partition (15) between the separation edges where said strip (8 13) and each goods adjoin, and (e) — the process which crosses said free partition (15), both joins certainly said first and second strip (8 13), and forms closed garments.
2. In Advance of Process (a), Third Strip (5) of Flexible Ingredient Crosses Separation Line (6) Meant on the Same Longitudinal Direction Edge (25) as Said First Strip (8) being to be Attached, and it is Applied to Said Web (1). The approach by the claim 1 in which said third strip (5) contains the ingredient with which the ingredient (18) which can be attached is attached so that said first strip (8) can be removed.
3. Approach according [said first strip (8) and second strip (13) are attached in said web (1) in one near attaching position of the separation lines (6) by which the above is meant so that it may leave the gap extended to the one side of the separation lines (6) meant, and] to claim 1 with die length of said strip material between said attaching positions longer than the gap length, or 2.
4. Approach by any one of the claims 1-3 which manufacture closed absorptivity garments with which it dissociated completely mutually and single string was separated in this way by cutting said strip in the mid-position (16) where strip (8 13) of each other which said absorptivity garments joined was joined.
5. Approach by any one of the claims 2-4 which give punching line arranged in accordance with separation line by which the above is meant at said third strip (5).
6. Each of Said Garments Has Waist Band (2) of Elasticity, and Elasticity Means for Said Waist Band is Applied by Adhesion before Any [of Said SUTORIBBU (5, 8, 13)] Application. It is an approach by any one of the claims 1-5 which said web does not adhere to said waist band (2) in the field in which said strip (8 13) is to be attached, but give a comparatively flat outer surface in said field in this way.
7. Waist Band Section in which it is Absorptivity Garments for Absorption of Human Being's Exudate (27), and Said Absorptivity Garments were Divided into Anterior Part (F) and Posterior Part (R) Section by Fixed Location (21 22) in which Two Re-Wearing is Possible is Included. Each of the absolute location is located in each edge of said anterior part and a posterior part section. A part for part I in which each of said fixed location (21 22) has the first and the second edge (23 24) (8, 13, 17, 18, 19) is included. The first edge (23) is strongly fixed to said anterior part or a posterior part section, and the second edge (24) contains the fixed portion (18) in which re-wearing is possible. In the absorptivity garments with which the first edge for said

part I (23) and the second edge for said part I (24) are given on the first and second separation strip (13 8), respectively It is strongly fixed so that evenly [the external free end of one strip (8) of said strip (8 13) / free end / of the strip (13) of another side of said strip (8 13) / external]. Absorptivity garments characterized by giving the strip (8, 13, 17) which has a freedom external edge (29) including two flat edges, and which was put together.

8. Fixed Location in which that Said Waist Band Section Contains One or More Elastic Components (2) to which it Adhered There and Said Re-Wearing of Non-Adhering Partition of Said Elastic Component are Possible (21 22)

Absorptivity garments by the claim 7 to which it is given on said waist band under **, and said waist band is characterized by the substantially flat thing in said partition as compared with the remainder of the waist band of said elasticity in which re-wearing is possible.

9. Claim 7 characterized by being closed trousers in which re-wearing of absorptivity in which said absorptivity garments contain the absorption heart is possible, or garments by 8 in which re-wearing is possible.

10. The claims 7 and 8 characterized by the ability of the third strip (5) of that the parts (18) in which said re-wearing on said first strip (8) is possible are one parts of a male / female mold association and said waist band (2), or the arbitration on it to give the part of another side of said male / female mold association, or absorptivity garments by any one of the 9 in which re-wearing is possible.

11. In Garments with which it is Absorptivity Garments Which a Single String according to Claims 1, 2, 3, and 5 or Any One Approach of 6 Closed, and Each of Said Garments Followed Any One of the Claims 7-10 The first and the second strip (8 13) to which said absorptivity garments (27) were joined adhere mutually, and said strip (8 13) is attached between adjoining garments (27), And garments with which it weakens and a line is characterized by enabling it to give said strip (8 13) to the middle location (16) joined mutually, and to separate said one or more garments from the remainder.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
Field to which absorptivity garments invention obtained by the manufacture approach of the absorptivity garments in which re-wearing is possible, and it belongs This invention relates to the manufacture approach of the absorptivity garments in which re-wearing is possible. This invention relates to the absorption garments which the absorptivity garments specified in the premise knot of a claim 7 and a single string closed again.
Background of invention The type absorptivity garments in which re-wearing is possible are known. One of such the garments is a diaper used by a child or the adult incontinentia person, said diaper has the strip to which the tab was attached at the end of said product, and when it fits the user of a baby/child, it can be made to adhere so that it can remove to the landing partition (landing zone) of the other end of said product. However, one of the problems about this is that some dexterity is required of holding a tab and arranging in a suitable location, in order to equip with garments. It will be hard to assemble especially garments, since an elderly user often lacks such dexterity.
The absorptivity products another type which is often used recently and avoids this problem are absorptivity garments generally known as sweat pants or trousers for incontinentia. from the diaper in which re-wearing is possible, the garments are boiled markedly and it can equip with them conveniently and quickly. That is because it is extremely similar to the usual trousers with the continuous waist band and two continuous foot openings. It can equip like [without a reserve assembly] the usual trousers for this form. However, the changing is a problem when garments become dirty. In order to remove usually through trousers, it is necessary to remove the garments which took off their clothes completely in external clothes, or (this is a difficult thing in many cases) tore the both sides of trousers perpendicularly and were torn from between a wearing person's feet. However, especially for the wearing person who probably lacks the force which tears a product and who is senility very much, it is difficult to tear a flank.
It is that the further problem cannot adjust absorptivity trousers, and a wearing person will sense unpleasant if right size is not so chosen correctly. Furthermore, as for accommodation possibility, it is desirable to take into consideration change of the waist size which happens during a day after a meal. Moreover, supposing it is going to respond to all forms, much size selections will be required.
Although the absolute location in which re-wearing is possible enables it to take off its clothes easily so that a diaper can be adjusted, the property applied one side is applied to absorptivity trousers, and the solution for enabling manufacture of them economically at coincidence with in-line one required for the manufacture which can be performed is not found out yet.
Therefore, the purpose of this invention is offering solution of said problem by the specific manufacture approach of absorptivity garments which can be manufactured by the in-line continuous process and in which re-wearing is possible. This invention offers the garments which have the absolute location which can manufacture by the in-line continuous process, and in which re-wearing is possible again.
Outline of invention The above-mentioned purpose is solved by the approach of having the description specified by the claim 1.
Similarly, the garments of this invention are characterized according to the description specified by the claim 7.
The desirable example of this invention is prescribed by the subordinate claim.
It is used for the vocabulary "attachment is possible so that it can remove" describing the ingredient contained in the first strip in a claim. It should be understood that this vocabulary has made reference about the ingredient in which attachment and the reinstallation to another part are possible. For example, some of

hooks and loop-formation ingredients (for example, ingredient currently sold by the brand name of "Velcro") can constitute such an ingredient. Other ingredients which enable attachment, removal, and reinstallation are contained in said vocabulary. It is "immobilization in which re-wearing is possible" similarly.
Reference is made about the immobilization whose vocabulary to say also contains the ingredient which can be attached so that it can remove.
With the approach and product of this invention, the single garments which single garments or a single string connected become available, and the garments are manufactured in the condition (that is, condition which was ready so that a wearing person might be equipped as usual absorptivity trousers) of having closed as contrasted with the open condition that the usual type diaper in which re-wearing is possible is manufactured.

In the desirable example of this invention, after manufacturing at an in-line process, it adheres to said garments mutually. By [of punching etc.] weakening and offering a line (a line of weakening) between said each garments, separation from the remainder of each garments or much garments is also possible. Such an example makes it possible to supply as a series of goods which were able to wind up the product. Instead, in such the example, goods may be connected with back doubling and may be arranged in the accumulated format. Even when, as for such goods that were able to be wound up, or the goods accumulated and connected, a metaphor external package is removed, said both goods have the additional advantage of remaining. absorptivity goods with this connected single relation — a group — or [that goods are scattered in that result, for example, a pocket bag etc., by dissociating from goods] — or it is useful to preventing deforming severely (this being what often happens, when goods are not connected).
Easy explanation of a drawing With reference to the following drawings, this invention is described more in a detail below.
Drawing 1 shows the first stage story of the approach by the desirable example of this invention. The web of the absorptivity garments to which it adhered passes along the first two partition (a) and (b), and is moved in the direction of an arrow head A.
Drawing 2 shows the further phase of the manufacture approach. The web shown by drawing 1 is folded up by the central straight side shaft, and it changes the anterior part and the posterior part of said goods into a contact condition there.
Drawing 3 shows the further phase of said manufacture approach. The absorptivity goods which a single string linked serve as absorptivity garments which dissociated, respectively, and it was welded, it was cut in the further partition (c), (d), and (e), and a large number separated there.
Although drawing 4 shows the sectional view in alignment with line IV-IV of the partition (c) of drawing 3 , the first strip is separated from the third strip attachment element only for precision.
Drawing 5 shows the sectional view in alignment with line V-V of the partition (d) of drawing 3 .
Drawing 6 shows the sectional view in alignment with a part of line VI-VI of the closed separation absorptivity garments shown by drawing 3 after a partition (e).
Although drawing 7 is the same sectional view as drawing 6 , the fixed means in which re-wearing is possible is opened there.
Detailed description of a desirable example Drawing 1 shows a part of web 1 containing the absorptivity goods which a large number which are substantially connected in parallel to a flat conveyor front-face (here, not shown) top, and are placed opened. In the example which the punching line 6 etc. weakens and is illustrated by the line, the boundary is mutually set to absorptivity goods. Therefore, the web 1 formed in this way will be continuation substantially, if a line is removed in said slight weakness substantially extended perpendicularly on the two longitudinal direction edges 25 and 26 of said web. In this case, it is located in the both sides of the stub 7 which it weakens, and a line 6 is offered between two adjoining goods, and is used for formation of the foot disconnection section of the garments manufactured.
The notation of F and R in drawing is used in order to show the anterior part and the posterior part front face of garments which are finally obtained, respectively.
It weakens and a line 6 forms the separation (that is, next separation) line meant between goods in this way. Said waist band section is connected to either of the longitudinal direction edges of a web 1 for each absorptivity goods by an impermeable backseat and the surface sheet of permeability, or one or more sheets 28 like a liner including the waist band section 2 of elasticity or non-elasticity. The absorption heart 4 or an absorption layer is substantially maintained symmetrically about Chuo Line 3 of each goods between the two waist band sections with a certain means. The type of this ingredient arranged and used is not further

described in a detail. It is because the arrangement and the ingredient which many types require are common knowledge at this contractor.
A line 6 (namely, punching line) needs to be arranged so that the elastic yarn of a waist band may not be cut, and it is useful to it giving the further structural integrativeness to a web during transportation with said manufacture machine in the place where the elastic waist band is used.
A web 1 is preferably sent in the direction of an arrow head A toward a partition (a) at an in-line process continuously. In the partition (a) where the first desirable processing process is performed by this example, the strip 5 of a flexible ingredient is attached in a web 1 by ultrasonic welding or adhesion by the anterior part F or posterior part R side according to in which side (F or R) the fixed portion of attachment closure which can exfoliate is located. The strip 5 of the example illustrated is preferably applied in this way on the separation line 6 by which the one half of a strip is meant on the longitudinal direction edge 25 at the side else in one half at said one line 6 side. A strip 5 contains one of the loop-formation element of a hook, and the elements of the attachment means like a loop-formation attachment means which can be exfoliated. Of course, a loop-formation element is made to adhere there-like, and may a strip 5 and really [said] be formed.
A strip 5 is applied to the outer surface of sheet 28 / waist band 2 with the loop-formation element which it separates and is faced from a sheet 28 (namely, outside of the page of drawing 1).

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DRAWINGS

[Drawing 1]

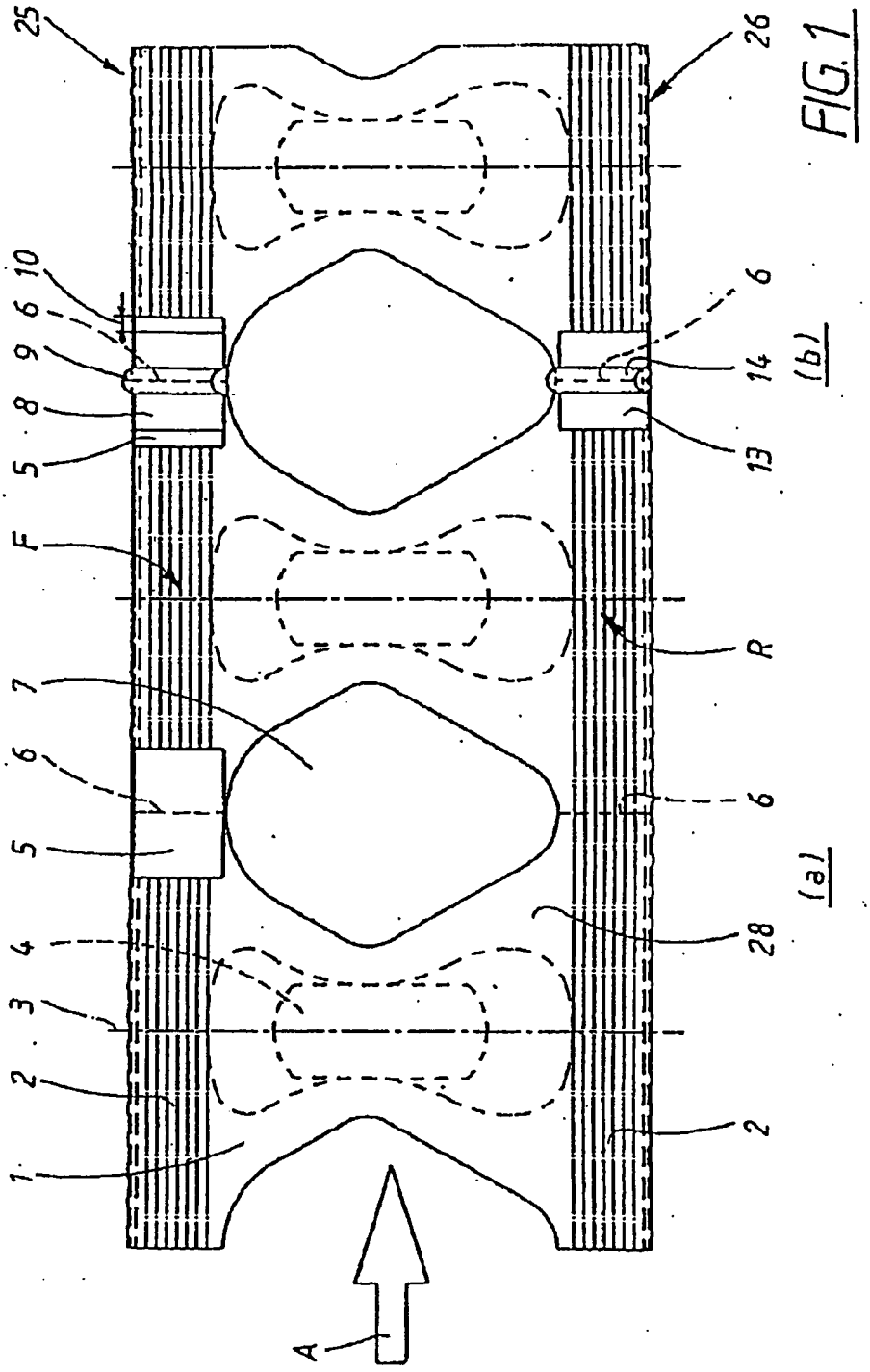

FIG. 1

[Drawing 3]

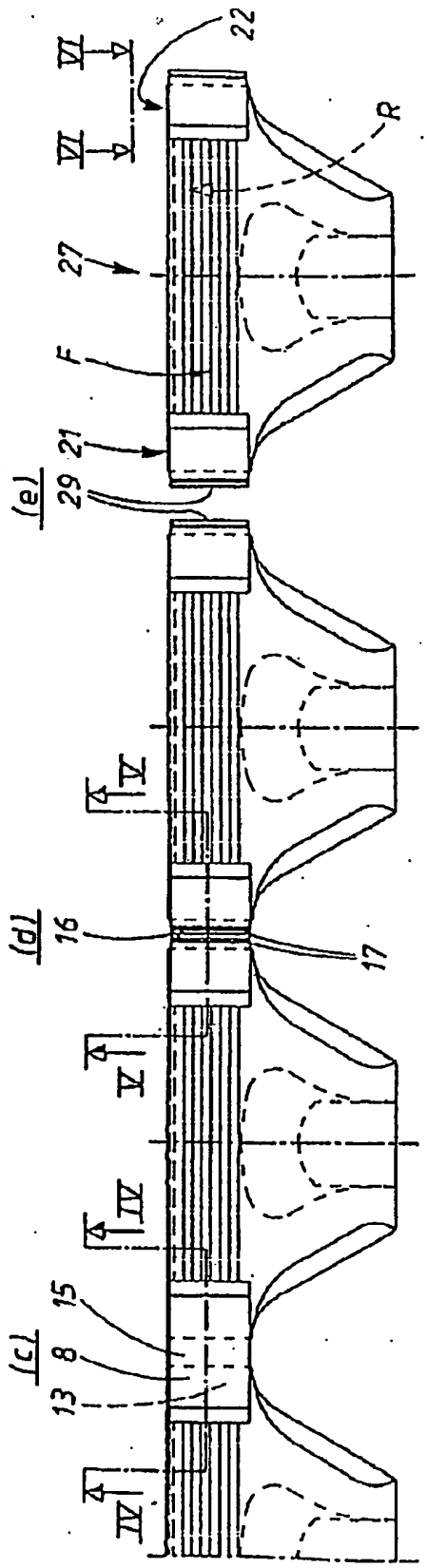

FIG. 3

[Drawing 4]

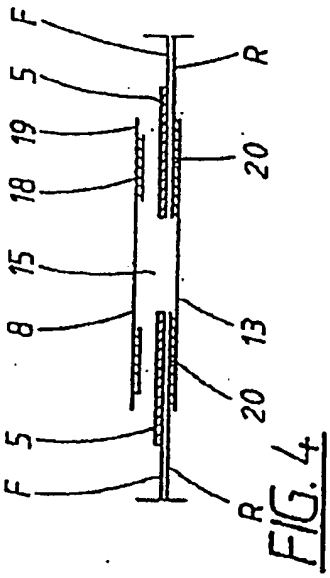

FIG. 4

[Drawing 5]

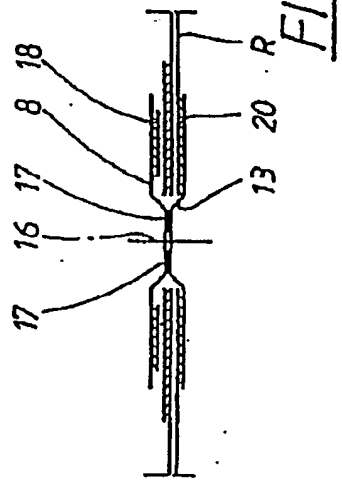

FIG.5

[Drawing 2]

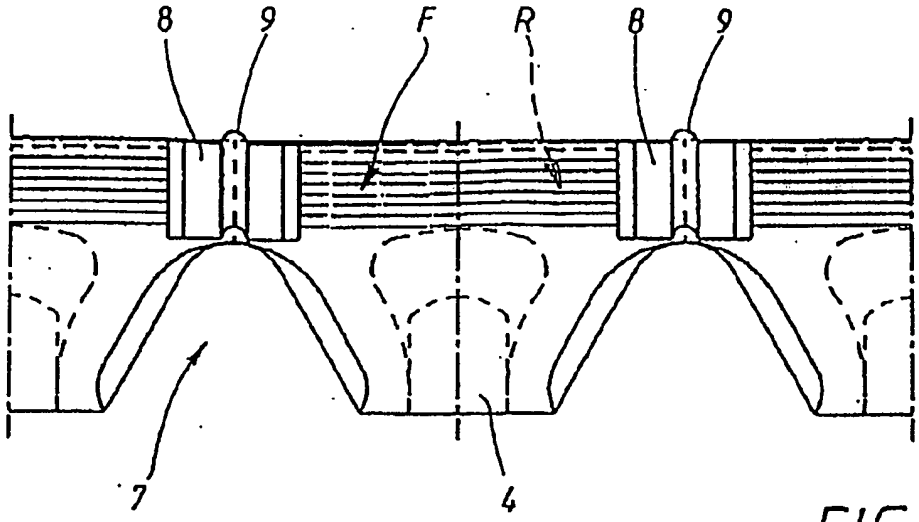

FIG.2

[Drawing 6]

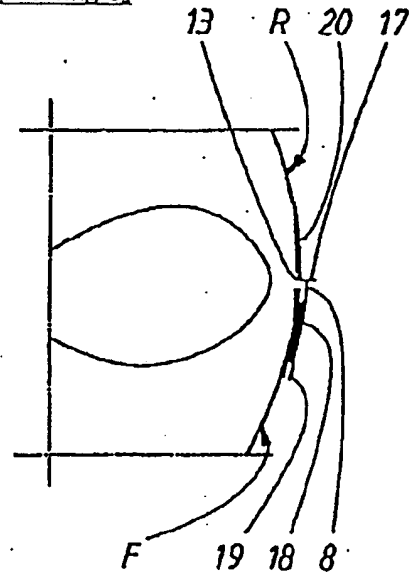

FIG.6

[Drawing 7]

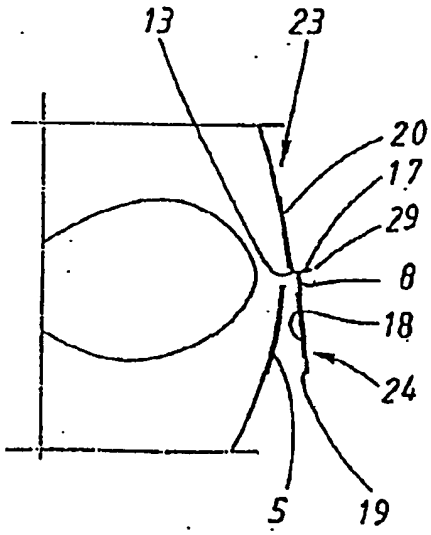

FIG.7

[Translation done.]